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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KS-PMC-2014-15

Date : 03.06.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Date of Testing : 03.06.2014

Material Type : Wet Mix Macadam

Sample Location : At Site

Oven Dry Wt (gm): **13064**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	432	432	3.3	96.7	95-100
22.4	4612	5044	38.6	61.4	60-80
11.2	2231	7275	55.7	44.3	40-60
4.75	1945	9220	70.6	29.4	25-40
2.36	1436	10656	81.6	18.4	15-30
0.600	1238	11894	91.0	9.0	8-22
0.075	860	12754	97.6	2.4	0-5

Note:

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3. Any Query regarding the report must be reported within 15 days from the date of testing.

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GRADATION FOR WMM
MORTH TABLE-400-11

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Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Date of Testing : 03.06.2014

Material Type : Wet Mix Macadam

Sample Location : At Site

Oven Dry Wt (gm): **13117**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	455	455	3.5	96.5	95-100
22.4	4536	4991	38.0	62.0	60-80
11.2	2378	7369	56.2	43.8	40-60
4.75	1835	9204	70.2	29.8	25-40
2.36	1465	10669	81.3	18.7	15-30
0.600	1278	11947	91.1	8.9	8-22
0.075	860	12807	97.6	2.4	0-5

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Job No.:CECTC-KS-PMC-2014-15

Date: 03.06.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.K.ShivaKumar,** Contractor, Bangalore.
Name of Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	03.06.2014

Result : Flakiness Index = **14.85%**

Elongation Index = **11.30%**

Result : Combined Flakiness & Elongation index **26.15%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous concrete is 30%

Note:

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Job No.:CECTC-KS-PMC-2014-15

Date: 03.06.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.K.ShivaKumar,** Contractor, Bangalore.
Name of Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	03.06.2014

Result : Flakiness Index = **15.30%**

Elongation Index = **11.87%**

Result : Combined Flakiness & Elongation index **27.17%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous concrete is 30%

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Job No.: CECTC-KS-PMC-2014-15

Date: : 03.06.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.
Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.
Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014
Date of Testing : 03.06.2014
Material Type : Wet Mix Macadam
Sample Location : At Site

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	22.85	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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